TEST FOR MEASUREMENT OF STUDENT ACHIEVEMENT MAINTENANCE

2 kW MILITARY TACTICAL GENERATOR SET MEP-531A - 120 VAC 60 HZ MEP-501A - 28 VDC

WRITTEN TEST

MASTER TEST BOOKLET

TEST INSTRUCTIONS FOR THE PROCTOR

PRIOR TO START OF TESTING:

Tell the students that use of reference materials (e.g., Student Guide, Maintenance Manuals) is permitted.

There is only one correct answer for each test item.

Distribute the Test Booklet face down.

Announce time of test (.5 hours). Each item is worth 5 points.

Direct students to turn over the Test Booklet. Read the directions with the students. Instruct the students to begin the test.

Tell the students to bring Test Booklet to you when they are finished with the test and leave the room.

AT THE COMPLETION OF TESTING:

Grade the test using the Test Answer Key in the Master Test Booklet. Multiply the items answered correctly by 5 to calculate the final score (e.g., $15 \times 5 = 75\%$).

Have students return to the classroom and review the correct answers to the test items.

2KW Generator Maintenance Test

1. The generator set is designed to be carried by?	
a. Four personsb. One personc. A forkliftd. Two people	
2. A is used to manually start the engine.	
a. Start-Preheat/Preheat/Off/Start switchb. NATO slave receptacleStarterd. Recoil starting device	
3. The generator set is powered by a	
 a. 4 cylinder, 4 cycle diesel engine b. 1 cylinder, 4 cycle gasoline engine 1 cylinder, 4 cycle diesel engine 2 cylinder, 2 cycle diesel engine 	
4. The MEP - 531A generator set is equipped with a	alternator.
a. 28 VDCb. 120 VAC, three phasec. 120 VAC, single phased. 12 VDC	
5. The fuel tank has a capacity to provide 4.8 hours of operation at	load.
a. 50% b. 100% 75% 80%	

6. Air is drawn into the engine cylinder during the
a. Compression strokeb. Exhaust strokePower strokeIntake stroke
7. The amount of fuel delivered to the fuel injector from the fuel injection pump is controlled by the
a. Generator control unitb. Fuel injectorc. Governord. Fuel filter
8. The electrical starting system is energized by 12 VDC power received through the NATO's slave receptacle.
a. True b. False
9. The Start-Preheat /Preheat/Off/Start switch is a position switch for electric starting of the generator set.
a. Fourb. Threec. Twod. One
10. The increases or decreases voltage across the power windings to match load demand.
a. Dynamo b. Voltage regulator Voltmeter Generator control unit
11. The voltage adjust potentiometer adjusts the
a. Engine speedb. Frequency setpointc. Voltage setpointd. Injection pump

WRITTEN TEST C-XXX-XXXX **12.** The connects/disconnects power to output load terminals. a. Generator control unit b. Voltage regulator c. Circuit breaker diode d. On-Off load circuit breaker **13.** The load terminal board has _____ output load terminals. a. Two b. Four c. Aluminum d. Plastic **14.** The dynamo produces _____ power for the generator control system. a. 120 VAC b. 28 VDC c. 12 VDC d. 40-50 VAC 15. The low oil pressure switch activates engine shutdown when oil pressure falls to a. 6 + 1psi b. 25 + 5 psic. $10 \pm 2 \text{ psi}$ d. $15 \pm 3 \text{ psi}$ **16.** Repair parts for the generator set are found in TM 9-6115-673-13&P Appendix B. a. True b. False 17. When electric starting the generator set, do not crank the engine more that _____ seconds. a. 15 b. 10

c. 20d. 5

WRITTEN TEST C-XXX-XXXX **18.** The releases compression from the engine cylinder to allow easy pulls of recoil starter. a. Engine Run lever b. Engine Stop lever c. Decompression lever d. Discharge varistor **19.** Prior to starting the generator set, the operator must perform PMCS procedures. a. Unit level b. Before c. After d. During 20. The ON-OFF load circuit breaker should be positioned to ON prior to starting the generator set. a. True b. False 21. Generator set Unit level troubleshooting for "Engine will not Start (manual starting)" is found in _____. a. Table 1-1 b. Table 4-2 c. Table 3-1 d. Table 4-1 **22.** The Resilient Mounts are replaced ______. a. Every 1500 hours b. Every 1000 hours c. Every 3000 hours d. Every 2000 hours **23.** The engine lube oil is changed _____. a. Every 25 hours b. Only when needed c. Every 100 hours

d. Every 150 hours

24.	Alternator brushes should always be replaced as a set.
	True False
25.	The first step in surface preparation for corrosion control is the surface.
b. c.	Sanding Cleaning Painting Priming

TEST ANSWER KEY/TEST ITEM CROSS REFERENCE SHEET

Item No.	Answer	Reference
Q1.	a	P. 1-5
Q2.	d	P. 2-1
Q3.	c	P. 1-5
Q4.	c	P. 1-10
Q5.	b	P. 1-5
Q6.	d	P. 1-11
Q7.	c	P. 1-11
Q8.	b	P. 1-16
Q9.	a	P. 2-6
Q10.	b	P. 1-18
Q11.	c	P. 1-18
Q12.	d	P. 1-20
Q13.	a	P. 2-7
Q14.	d	P. 5-66
Q15.	d	P. 1-26
Q16.	b	P. F-1
Q17.	b	P. 2-23
Q18.	c	P. 2-1
Q19.	b	P. 2-21
Q20.	b	P. 2-21
Q22.	d	P. 4-14
Q23.	c	P. 4-10
Q24.	a	P. 4-20
Q25.	b	MIL-HDBK-729